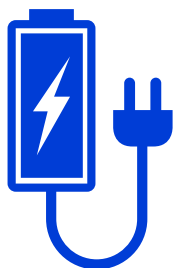
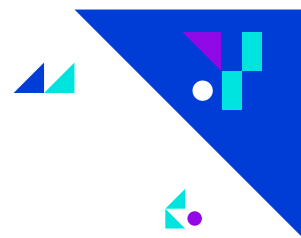


Integrated Batteries

Many devices we use on a daily basis have **integrated batteries**, meaning they are embedded in the device by design and are not removable without tools.



Most rechargeable batteries are **integrated**. When rechargeable batteries are not integrated, there is a functional reason, such as easy exchange in the middle of a work flow for power tools, or to easily charge the battery of your e-bike.



Integrated batteries have many benefits, including ...



Size/Design



Water Resistance



Dust Protection



Safety

% share of integrated batteries per product category



Car
100%




Smartwatch
100%



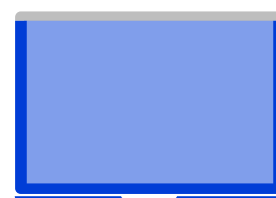

Toothbrush
100%




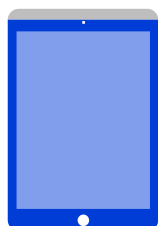

Shaver
100%





E-Scooter
100%

Notebook
95%





Tablet
95%




Smartphone
90%





Vacuum Cleaner
85%




Accessories
20%




Power Tools
5%




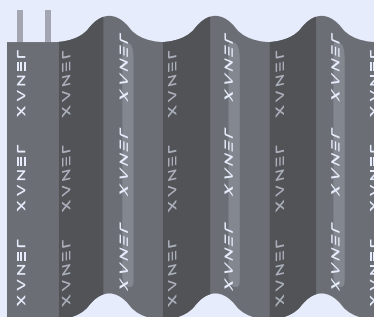
E-Bike
5%


Integrated Batteries

Highly innovative integrated battery technologies are on the horizon for a range of applications. These innovations allow further miniaturisation of devices and applications, and incorporation of smaller batteries.



Bendable Batteries



Examples of use



Wearable Technology



Flexible Display

Expected in market

2022-24

Thin Film Batteries (Solid State)



Examples of use



Smart Cards



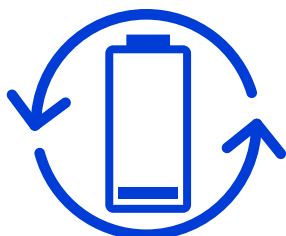
Vehicles



Pacemaker

Expected in market

2025



Integrated batteries can be safely replaced or removed by consumers or qualified professionals, in order to allow for better collection and recycling of materials.

All devices under warranty are **covered by repair and after-sales solutions** contributing to the creation of nearly

240,000 jobs

